

# PATENT COOPERATION TREATY

From the:  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

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## PCT

NOTIFICATION OF TRANSMITTAL OF  
INTERNATIONAL PRELIMINARY  
REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Rule 71.1)

Date of mailing (day/month/year)	15 JUL 2005
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Applicant's or agent's file reference  
20400446KC

**IMPORTANT NOTIFICATION**

International application No.  
**PCT/SG2004/000068**

International filing date (day/month/year)  
23 March 2004

Priority date (day/month/year)  
2 April 2003

Applicant

CHUA, Beng San et al

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the *PCT Applicant's Guide*.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

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**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**  
(Chapter II of the Patent Cooperation Treaty)  
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 20400446KC	<div style="display: flex; justify-content: space-between;"> <div><b>FOR FURTHER ACTION</b></div> <div>See Form PCT/IPEA/416</div> </div>	
International application No. <b>PCT/SG2004/000068</b>	International filing date ( <i>day/month/year</i> ) 23 March 2004	Priority date ( <i>day/month/year</i> ) 2 April 2003
International Patent Classification (IPC) or national classification and IPC  Int. Cl. <sup>7</sup> G01C 21/30		
Applicant  CHUA, Beng San et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a. ☒ (*sent to the applicant and to the International Bureau*) a total of 1 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).  
☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b. ☐ (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input checked="" type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 2 November 2004	Date of completion of the report 12 July 2005
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer  <b>J.W. THOMSON</b> Telephone No. (02) 6283 2214

JC05 Rec'd PCT/PTO 30 AUG 2005

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1 (b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-9 as originally filed/furnished
  - pages\* received by this Authority on with the letter of
  - pages\* received by this Authority on with the letter of
- ☒ the claims:
- pages 10-11 as originally filed/furnished
  - pages\* as amended (together with any statement) under Article 19
  - pages\* 12 received by this Authority on 2 November 2004 with the letter of 1 November 2004
  - pages\* received by this Authority on with the letter of
- ☒ the drawings:
- pages 1/5 - 5/5 as originally filed/furnished
  - pages\* received by this Authority on with the letter of
  - pages\* received by this Authority on with the letter of
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages
  - ☒ the claims, Nos. 21
  - ☐ the drawings, sheets/figs
  - ☐ the sequence listing (*specify*):
  - ☐ any table(s) related to the sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
  - ☐ the claims, Nos.
  - ☐ the drawings, sheets/figs
  - ☐ the sequence listing (*specify*):
  - ☐ any table(s) related to the sequence listing (*specify*):

\* If item 4 applies, some or all of those sheets may be marked "superseded."

**Box No. IV Lack of unity of invention**

1. ☐ In response to the invitation to restrict or pay additional fees the applicant has:
- ☐ restricted the claims.
  - ☐ paid additional fees.
  - ☐ paid additional fees under protest.
  - ☐ neither restricted nor paid additional fees.
2. ☒ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:

☐ complied with.

☒ not complied with for the following reasons:

**Claim 1:** Relates to a display map having a zooming method in which the scale of the map displayed is determined by the number of entities present in the map. The determination of the number of entities present and the comparison to a pre determined threshold is the first special technical feature.

**Claim 19:** Relates to a display map having two parts in which the first part a map is displayed at a first scale and in the second part the map is displayed at a second scale. Displaying the same map side by side at two different scales is the second technical feature.

These groups of claims are not linked as to form a single general inventive concept, that is, they do not share any special technical features. Therefore these claims do not relate to one invention only

4. Consequently, this report has been established in respect of the following parts of the international application:

☒ all parts.

☐ the parts relating to claims Nos.

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

**1. Statement**

Novelty (N)	Claims 1-22	YES
	Claims	NO
Inventive step (IS)	Claims 1-22	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-22	YES
	Claims	NO

**2. Citations and explanations (Rule 70.7)**

**D1:** Derwent Abstract Accession No. 2002-613805/66, Class P85;T01, JP 2002216143-A (JO) 2 August 2003

The invention defined by claims 1-18 appears to be both novel and inventive in light of the citations listed in the ISR with no disclosure of a map having a zooming method in which the scale of the map displayed is determined by the number of entities present in the map.

Furthermore, the invention defined by claims 19-22 appears to be novel and inventive in light of citation D1 which fails to disclose a digital display method in which a map is displayed on a display screen having two separate parts. On the first part of the display screen a map is displayed at a first scale and in the second part of the display screen said map is displayed at a second scale

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18. A method as claimed in claim 17, wherein the display of the right screen is of a larger scale than the display of the left screen, and the map displayed in the left screen forms an area immediately around the position as displayed in the right screen.

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19. A digital map display method including the steps:

- (a) determining a position of a display device for the digital map;
- (b) displaying the digital map at a first scale on a first part of a display screen of the display device; and
- (c) on a second part of the display screen of the display device displaying at a smaller scale that part of the digital map surrounding the position.

wherein the first part of a display screen is of the exact location within a relatively small geographical area that forms the area immediately around the position in the map of the second part of the display screen.

20. A method as claimed in claim 19, wherein the first part is a right display and the second part is a left display.

21. A method as claimed in any one of claims 19 to 20, wherein the split is horizontal or vertical.

22. A computer usable medium comprising a computer program that is configured to cause at least one processor to execute one or more functions to perform the steps of any one of claims 1 to 21.